

AMENDED CLAIM SET

1. (currently amended) A gas generator for an air bag,
~~comprising: used in an inflating type safety system of a vehicle,~~
~~provided with, in a gas generator housing,~~

_____ a pressurized medium accommodating chamber charged with a
pressurized medium, and provided with a first opening formed in a
first side thereof and a second opening formed in a second side
thereof;

_____ a first gas generating chamber provided at the first side
outside the pressurized medium accommodating chamber and separated
by a first rupturable plate covering the first opening; and plural
~~gas generating chambers partitioned from the pressurized medium~~
~~accommodating chamber, wherein~~

~~_____ the pressurized medium accommodating chamber is provided with~~
~~openings corresponding to the respective gas generating chambers~~
~~and respective openings are closed by rupturable plates,~~

~~_____ the gas generator is provided with a moving body for rupturing~~
~~a rupturable plate (a first rupturable plate) for closing an~~
~~opening (a first opening) corresponding to at least one gas~~
~~generating chamber (a first gas generating chamber),~~

~~_____ the first gas generating chamber has a single gas ejecting~~
~~port for ejecting a gas inside the first gas generating chamber,~~

~~_____ the~~

a stationary member provided immovably with respect to the first combustion chamber and directly supporting only a single moving body ~~is provided with a projecting portion facing the first rupturable plate, the single moving body adapted to be propelled by a product from the first gas generating chamber to rupture the first rupturable plate; and and is disposed to be away from the first rupturable plate, and~~

~~another opening (a second opening) and another rupturable plate (a second rupturable plate) closing the another opening is provided inside the pressurized medium accommodating chamber~~

a second gas generating chamber located at the second side outside the pressurized medium accommodating chamber and separated by a second rupturable plate covering the second opening, the second opening being provided at a position deviated from a hitting portion of the single propelled moving body.

2. (currently amended) A gas generator for an air bag according to claim 1, wherein the hitting portion ~~for the moving body exists~~ on a first imaginary line extending from a second imaginary inside the pressurized medium accommodating chamber in extension of the line connecting the single moving body and the first rupturable plate.

3. (currently amended) A gas generator for an air bag according to claim 1 or 2, wherein the single moving body has a the

projecting portion ~~is~~ formed in one of a spherical shape or shape
and a tapered shape, and ~~the moving body is~~ disposed such that the
projecting portion faces the first rupturable plate.

4. (currently amended) A gas generator for an air bag
according to claim 1 or 2, wherein the pressurized medium
accommodating chamber has ~~is formed in a~~ column shape, and the a
~~first opening is formed at one end portion thereof and a second~~
opening is formed at the second side opposing the first side~~the~~
~~other end portion thereof.~~

5. (currently amended) A gas generator for an air bag
according to claim 1 or 2, wherein the single moving body is
propelled by ~~leaps due to a~~ pressure generated inside the first gas
generating chamber and enters ~~to rupture the first rupturable plate~~
~~and irrupts into~~ the pressurized medium accommodating chamber.

6. (currently amended) A gas generator for an air bag
according to claim 1 or 2, wherein an igniter actuated upon
receiving an actuation signal, or the igniter and a gas generating
agent burnt by actuation of the igniter are disposed in at least
one of the first gas generating chamber and the second gas
generating chamber ~~the plural gas generating chambers.~~

7. (currently amended) A gas generator for an air bag
according to claim 1 or 2, further comprising: ~~wherein~~

_____ a gas outlet chamber ~~is~~ provided between the first gas generating chamber and the pressurized medium accommodating chamber, the gas outlet chamber provided with a plurality of and plural gas discharging ports formed in a peripheral wall thereof for releasing the pressurized medium and gasses generated in the first combustion chamber and the second combustion chamber are formed in the circumferential direction of the gas outlet chamber.

8. (currently amended) A gas generator for an air bag according to claim 7, wherein the stationary member is fixedly provided inside a retainer is provided to be fixed in the gas outlet chamber, and the stationary member directly retainer holds the single moving body, such that single moving body is provided in a flow path, connecting the first gas generating chamber and the first opening, for the pressurized medium and the gasses generated in the first combustion chamber.

9. (currently amended) A gas generator for an air bag according to claim 1 or 2, further comprising:

_____ a single ejecting port formed in the first gas generating chamber for discharging the product to propel the single moving body,

_____ wherein a center axis the center of the gas ejecting port, a the center of the single moving body, and a the center of the first

rupturable plate are arranged substantially on a common imaginary straight~~in the almost same~~ line.

10. (currently amended) A gas generator for an air bag according to claim ~~91 or~~ 2, wherein the single moving body faces ~~is disposed to face the single gas ejecting port or is be-fitted~~ therein.

11. (currently amended) A gas generator for an air bag according to claim 1 or 2, wherein the second rupturable plate ~~(the second rupturable plate) which closes the opening (the second opening) corresponding to the another gas generating chamber (the second gas generating chamber) of the plural gas generating chambers~~ is ruptured by heat or pressure of a gas ejected from the second gas generating chamber.

12. (currently amended) An air bag system, further comprising:

an actuation-signal outputting means including an impact sensor and a control unit; ~~and~~

a module case accommodating the a gas generator for an air bag according to claim 1 or 2; and

an air bag in a case.

13. (new) A gas generator for an air bag, comprising:

a gas generator housing defining therein a pressurized medium accommodating chamber that accommodates a pressurized medium, and having a first opening and a second opening;

a first gas generating chamber containing a first gas generating agent and adapted to be in communication with the pressurized medium accommodating chamber through the first opening;

a second gas generating chamber containing a second gas generating agent and adapted to be in communication with the pressurized medium accommodating chamber through the second opening;

a first rupturable plate for hindering the communication between the first combustion chamber and the pressurized medium accommodating chamber;

a diffuser housing provided between the first combustion chamber and the gas generator housing;

a supporting member provided inside the diffuser housing and having a cylinder portion for allowing a gas generated inside the first combustion chamber to flow towards the first opening a diameter of the cylinder portion increases as a distance to the gas generator housing decreases;

a moving body provided inside the cylinder portion and adapted to rupture the first rupturable plate and enter into the pressurized medium accommodating chamber when the gas generated

inside the first combustion chamber is introduced to the cylinder portion; and

a second rupturable plate that seals the second opening, the second opening being provided at a hitting position deviated from a position where the moving body hits after rupturing the first rupturable plate and entering the pressurized medium accommodating chamber.

14. (new) A gas generator for an air bag according to claim 13, wherein the first rupturable plate is attached directly to the gas generator housing to seal the first opening.

15. (new) A gas generator for an air bag according to claim 13 or 2, wherein moving body has a pointed projecting portion that faces the first rupturable plate.

16. (new) A gas generator for an air bag according to claim 7,

wherein the supporting member divides the gas outlet chamber into a first chamber which accommodates the moving body, and a second chamber in communication with an outside of the diffuser housing through the plurality of gas discharge ports,

wherein the gas generator housing has a third opening sealed by a third rupturable plate and adapted to communicate the pressurized medium accommodating chamber with the second chamber, and

wherein the cylinder portion is a combustion gas introducing pipe that defines the first chamber and accommodates the moving body therein, the combustion gas extends between the first combustion chamber and the gas generator housing, such that all the gas discharged from the first combustion chamber is introduced into the pressurized medium accommodating chamber.

17. (new) A gas generator for an air bag according to claim 16, wherein the first rupturable plate is attached to an end of the combustion gas introducing pipe facing away from the first combustion chamber.

18. (new) A gas generator for an air bag, comprising:
a gas generator housing defining therein a pressurized medium accommodating chamber that accommodates a pressurized medium, and having a first opening and a second opening;

a first gas generating chamber containing a first gas generating agent, and adapted to be in communication with the pressurized medium accommodating chamber through the first opening, the first gas generating chamber having a partition wall defining a gas ejecting port for ejecting a gas generated inside the first gas generating chamber;

a second gas generating chamber containing a second gas generating agent and adapted to be in communication with the

pressurized medium accommodating chamber through the second opening;

a first rupturable plate for hindering the communication between the first gas generating chamber and the pressurized medium accommodating chamber;

a diffuser housing provided between the first gas generating chamber and the gas generator housing; and

a moving body provided inside the diffuser housing and supported directly by the partition wall where the partition wall defines the gas ejecting port, such that the moving body ruptures the first rupturable plate and enters into the pressurized medium accommodating chamber when the gas is generated inside the first combustion chamber; and

a second rupturable plate that seals the second opening, the second opening being provided at a position deviated from a hitting position where the moving body hits after rupturing the first rupturable plate and entering the pressurized medium accommodating chamber.

19. (new) A gas generator for an air bag according to claim 18, wherein the moving body has one of a spherical shape and a tapered shape with a pointed end facing the first rupturable plate.

20. (new) A gas generator for an air bag, comprising:

a gas generator housing defining therein a pressurized medium accommodating chamber that accommodates a pressurized medium, and having an opening;

a gas generating chamber containing a gas generating agent and adapted to be in communication with the pressurized medium accommodating chamber through the opening;

a rupturable plate for hindering the communication between the gas generating chamber and the pressurized medium accommodating chamber;

a diffuser housing provided between the first gas generating chamber and the gas generator housing;

a supporting member provided inside the diffuser housing and having a cylinder portion for allowing a gas generated inside the combustion chamber to flow towards the first opening, a diameter of the cylinder portion increases as a distance to the gas generator housing decreases; and

a moving body provided inside the cylinder portion and adapted to rupture the rupturable plate and enter into the pressurized medium accommodating chamber when the gas generated inside the combustion chamber is introduced to the cylinder portion.